

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=1; day=23; hr=11; min=41; sec=26; ms=121;]

=====

Application No: 10523006 Version No: 1.0

Input Set:

Output Set:

Started: 2009-01-12 11:51:46.958
Finished: 2009-01-12 11:51:49.176
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 218 ms
Total Warnings: 39
Total Errors: 0
No. of SeqIDs Defined: 39
Actual SeqID Count: 39

| Error code | Error Description |
|------------|-----------------------------------------------------|
| W 213 | Artificial or Unknown found in <213> in SEQ ID (1) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (2) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (3) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (4) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (5) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (6) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (7) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (8) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (9) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (10) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (11) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (12) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (13) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (14) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (15) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (16) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (17) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (18) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (19) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (20) |

Input Set:

Output Set:

Started: 2009-01-12 11:51:46.958
Finished: 2009-01-12 11:51:49.176
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 218 ms
Total Warnings: 39
Total Errors: 0
No. of SeqIDs Defined: 39
Actual SeqID Count: 39

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Nuevolution A/S
Nuevolution A/S

<120> Multi-step synthesis of templated molecules

<130> P893PC00

<140> 10523006

<141> 2009-01-12

<150> PCT/DK03/00516

<151> 2003-07-30

<160> 39

<170> PatentIn version 3.3

<210> 1

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct (AH316)

<220>

<221> modified_base

<222> (1)..(1)

<223> g modified with Amino-modifier 5 (obtainable from Glen Research
cat. No 10-1905

<400> 1

ngtaacagac ctgtcgagca tccagct

27

<210> 2

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct (AH331)

<220>

<221> modified_base

<222> (27)..(27)

<223> modified uracil, namely Carboxy dT (Glen Research, cat. No 10-1035)

<400> 2

cgacctctgg attgcatcgg tgttacn

27

<210> 3

<211> 80
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH140)

<400> 3
 agctggatgc tcgacaggtc aggtcgatcc gcgttaccag tcttgctga acgtagtcgt 60
 ccgatgcaat ccagaggtcg 80

<210> 4
 <211> 56
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH36)

<220>
 <221> modified_base
 <222> (56)..(56)
 <223> modified uracil, namely Carboxy-dT (Glen Research cat.no. 10-1035)

<400> 4
 cgacctctgg attgcatcgg tcatggctga ctgtccgtcg aatgtgtcca gttacn 56

<210> 5
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH38)

<400> 5
 agctggatgc tcgacaggtc ccgatgcaat ccagaggtcg 40

<210> 6
 <211> 56
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH51)

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> modified uracil, namely Amino-Modifier C6 dT (Glen Research cat.no. 10-1039)

<400> 6
ngtaacacct gtgtaagctg cctgtcagtc ggtactgacc tgtcgagcat ccagct 56

<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic construct (AH137)

<400> 7
acgactacgt tcaggcaaga 20

<210> 8
<211> 80
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic construct (AH138)

<400> 8
tcttgccctga acgtagtcgt aggtcgatcc gcgttaccag agctggatgc tcgacaggtc 60

ccgatgcaat ccagaggtcg 80

<210> 9
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic construct (AH139)

<400> 9
cgacctctgg attgcatcgg 20

<210> 10
<211> 76
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic construct (AH143)

<220>
<221> modified_base
<222> (76)..(76)
<223> modified uracil, namely Carboxy-dT (Glen Research cat.no. 10-1035)

<400> 10

ctggtaacgc ggatcgacct tcattttttt tttttttttt ttttggctga ctgtccgtcg 60

aatgtgtcca gttacn 76

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct (AH202)

<220>

<221> modified_base

<222> (21)..(21)

<223> modified uracil, namely Carboxy-dT (Glen Research cat.no. 10-1035)

<400> 11

tctggattgc atcgggttac n 21

<210> 12

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct (AH 270)

<220>

<221> modified_base

<222> (1)..(1)

<223> g modified with Amino-Modifier 5 (cat.no. 10-1905)

<400> 12

ntaacgacct gtcgagcatc cagct 25

<210> 13

<211> 112

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct (AH286)

<400> 13

agctggatgc tcgacaggtc aagtaacagg tcgatccgcg ttatatcggt tacggcatta 60

cccgtatagc cgctagatgc ccaaccatga cggcccatag cttgcggctt gc 112

<210> 14

<211> 120

<212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH320)

<400> 14
 agctggatgc tgcacaggtc aggtcgatcc gcgttaccag gcccatagct tgcggcttgc 60
 tgcagtcgat ggaccatgcc tcttgccctga acgtagtcgt ccgatgcaat ccagaggtcg 120

<210> 15
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH321)

<400> 15
 caagaggcat 10

<210> 16
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH322)

<400> 16
 tcaggcaaga ggcatggtcc 20

<210> 17
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH342)

<220>
 <221> modified_base
 <222> (26)..(26)
 <223> modified uracil, namely Carboxy-dT (Glen Research cat.no. 10-1035)

<400> 17
 tacttgacct gtcgagcatc gttacn 26

<210> 18
 <211> 30
 <212> DNA

<213> Artificial Sequence

 <220>
 <223> synthetic construct (AH343)

 <220>
 <221> modified_base
 <222> (1)..(1)
 <223> g modified with Amino-Modifier 5 (cat.no. 10-1905)

 <400> 18
 gtaaccagct gcaagccgca agctatgggc 30

 <210> 19
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic construct (AH136)

 <400> 19
 agctggatgc tcgacaggtc tcttgccctga acgtagtcgt ccgatgcaat ccagaggtcg 60

 <210> 20
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic construct (AH174)

 <220>
 <221> modified_base
 <222> (18)..(18)
 <223> t modified with Amino modifier 5 (obtainable from Glen research
 cat No. 10-1905)

 <220>
 <221> modified_base
 <222> (26)..(26)
 <223> c modified with Thiol-Modifier C6 S-S (Glen Research,
 cat.no.10-1936)

 <400> 20
 tacgttcagg caagagtncc agttan 26

 <210> 21
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> first part of synthetic construct (AH190)

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> modified uracil, namely Amino-Modifier C6 dT (Glen Research Cat. No. 10-1039)

<220>
 <221> modified_base
 <222> (11)..(11)
 <223> g linked by PC Spacer phosphoramidite (obtainable from Glen Research, cat. No. 10-4913)
 to base 1 of SEQ ID NO:39

<400> 11
 ngtaacacct n 11

<210> 22
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH155)

<220>
 <221> modified_base
 <222> (25)..(25)
 <223> t modified with -COOH 3'

<400> 22
 ctggtaacgc ggatcgacct gttact 26

<210> 23
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic construct (AH272)

<220>
 <221> modified_base
 <222> (26)..(26)
 <223> t modified with -COOH 3'

<400> 23
 acgactacgt tcaggcaaga gttacn 26

<210> 24
 <211> 23

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic construct (AH202)

 <220>
 <221> modified_base
 <222> (23)..(23)
 <223> t modified with -COOH 3'

 <400> 24
 tctggattgc atcggctggt act 23

 <210> 25
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic construct (MDL251)

 <220>
 <221> modified_base
 <222> (1)..(1)
 <223> modified uracil, namely 5'amino-C6 dT (Glen Research Cat. No. 10-1039)

 <400> 25
 nacctgtcga gcattccagct 20

 <210> 26
 <211> 87
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic construct (AH154)

 <400> 26
 agctggatgc tcgacaggtc aagtaacagg tcgatccgcg ttaccagtct tgcttgaacg 60

 tagtcgtccg atgcaatcca gaggtcg 87

 <210> 27
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic construct (AH270)

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> g modified by 5' amino

 <400> 27
 ntaacgacct gtcgagcatc cagct 25

 <210> 28
 <211> 80
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic construct (AH140)

 <400> 28
 agctggatgc tcgacaggtc aggtcgatcc gcgttaccag tcttgcctga acgtagtcgt 60

 ccgatgcaat ccagaggtcg 80

 <210> 29
 <211> 16
 <212> DNA
 <213> Artificial

 <220>
 <223> synthetic construct, building block for coding region 1, Fig. 3A

 <400> 29
 sssssatatt tsssss 16

 <210> 30
 <211> 16
 <212> DNA
 <213> Artificial

 <220>
 <223> synthetic construct, building block for coding region 2, Fig. 3A

 <400> 30
 sssattttas ssssss 16

 <210> 31
 <211> 16
 <212> DNA
 <213> Artificial

 <220>
 <223> synthetic construct, building block for coding region 3, Fig. 3A

<400> 31
 staatttsss ssssss 16

<210> 32
 <211> 16
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic construct, building block for coding region 4, Fig. 3A

<400> 32
 ssatssatss atssss 16

<210> 33
 <211> 16
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic construct, buidling blocks for coding region 5, Fig. 3A

<400> 33
 gcccgattaa assccg 16

<210> 34
 <211> 16
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic construct, building blocks for coding region 6, Fig. 3A

<400> 34
 sasasttstt sssggg 16

<210> 35
 <211> 16
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic construct, codon 1, Fig. 3B

<400> 35
 gcgcgatatt tgggcc 16

<210> 36
 <211> 16
 <212> DNA

<213> Artificial

<220>

<223> synthetic construct, anti-codon 1, Fig. 3B

<400> 36

ggcccaaata tcgcgc

16

<210> 37

<211> 16

<212> DNA

<213> Artificial

<220>

<223> synthetic construct, codon 6, Fig. 3B

<400> 37

gagagttctt cgcggg

16

<210> 38

<211> 16

<212> DNA

<213> Artificial

<220>

<223> synthetic construct, anti-codon 6, Fig. 3B

<400> 38

cccgcaaga actctc

16

<210> 39

<211> 16

<212> DNA

<213> Artificial

<220>

<223> second part of synthetic construct (AH 190)

<220>

<221> modified_base

<222> (1)..(1)

<223> t linked by PC spacer phosphoramidite (Glen Research Cat. No. 10-1039) to last base of SEQ ID NO:21

<400> 39

ngacctgtcg agcatc

16